

## **TOTAL SHOULDER ARTHROPLASTY POSTOPERATIVE REHAB PROTOCOL**

The goal of the rehabilitation process is to provide greater mobility to the patient than before the surgery. In addition, stability of the shoulder is vital and essential to normal non-painful shoulder function. The key to the success of the rehabilitation following total shoulder replacement is compliance to your exercise program.

**Precautions:      Use sling for 3-4 weeks**  
**No forceful internal rotation for 6 weeks for fear of disrupting subscapularis repair**

### **I.      PHASE ONE - IMMEDIATE MOTION PHASE (Week 0-4)**

Goals: Allow early healing of capsule  
Increase passive range of motion  
Decrease shoulder pain  
Retard muscular atrophy and prevent RTC inhibition

### **WEEKS 1-2**

Sling at all times including sleep

Exercises:

- \* Passive Range of Motion
  - a. Flexion (0-75 degrees)
  - b. ER (in scapular plane at 30 to 0 degrees)
  - c. IR (in scapular plane at 30 degrees to 25-30 degrees)
- \* Pendulum Exercises
- \* Elbow/Wrist ROM
- \* Gripping Exercise for Hand
- \* Ice & Modalities
- \* Isometrics (Day 10)
  - a. Abductors
  - b. ER/IR
  - c. Elbow flexors
- \* Electrical Muscle Stimulation (if needed)
- \* Rope and Pulley (POD 5-7) – Flexion

**CAUTION: Do not stressfully actively IR arm against resistance for possibility of pulling subscapularis repair for 4-6 weeks**

**WEEKS 3-4**

Sling during day, discontinue at night

Exercises:

\*Continue all ROM exercises

- a. Initiate AAROM exercises
- b. Progress flexion to 90-100 degrees
- c. ER scapular plane at 45 to 25 degrees
- d. IR scapular plane at 45 degrees to side

\*Initiate AAROM ER/IR supine with L-bar

\*Initiate rhythmic stabilization exercises

- a. Flex/Ext
- b. ER/IR in scapular plane

\*Isometrics

- a. ER/IR
- b. Flex
- c. Ext
- d. Abd

\*Rope and Pulley

**II. PHASE TWO - ACTIVE MOTION PHASE (Week 4-10)**

Goals: Improve dynamic stabilization and strength

Improve Range of Motion

Decrease pain/inflammation

Increase Functional Activities

**WEEKS 5-8**

Exercises:

\* Active Assisted ROM Exercises with L-Bar (Begin week 2)

- a. Flexion to tolerance
    - b. ER in scapular plane at 90 degrees abduction
    - c. IR in scapular plane at 90 degrees abduction
- \*All motions to tolerance

\* Rope and Pulley

- a. Flexion

\* Pendulum Exercises

\* AROM Exercises

- a. Supine Flexion if unable sidelying flexion

\* Strengthening Exercises

- a. Tubing ER/IR
- b. Rhythmic stabilization Flex/Ext and ER/IR
- c. Sidelying ER
- d. Sidelying flexion

- e. Scapular strengthening exercises
- f. Prone rowing
- g. Prone extensions
- h. Biceps/triceps
- i. Isometrics for deltoid

### **WEEKS 9-12**

\*Continue all exercises listed above

\*Prone goal:

Flexion 160 degrees

ER at 90 degrees Abd: 75-80 degrees

IR at 90 degrees Abd: 60-65 degrees

\*Continue to emphasize AROM and strength

\*Progress strengthening exercises

\*Pool exercises and swimming

### **III. PHASE THREE - ACTIVITY PHASE (WEEKS 13-26)**

\*Initiation of this phase begins when patient exhibits:

1) PROM:

Flexion 0-160 degrees

ER 75 degrees

IR 60 degrees

2) Strength level 4/5 for ER/IR/ABD

Goals: Improve strength of shoulder musculature  
Neuromuscular control of shoulder complex  
Improve functional activities

Exercises:

\*AAROM and stretching exercises

a. Flexion with L-bar

b. ER/IR at 90 degrees abduction

\*Strengthening exercises

a. ER/IR tubing

b. Full Can

c. Lateral raises

d. Prone rowing

e. Sidelying ER

f. Prone extension

g. Biceps